DERWENT-ACC-NO: 1998-442864

DERWENT-WEEK: 199838

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TITLE: X-ray detector for irradiation alarm device - has

heat shrinking tube

on outer surface of optical detection pipe to cut off UV

from projection on

pipe

PATENT-ASSIGNEE: HAMAMATSU PHOTONICS KK[HAMM]

PRIORITY-DATA: 1996JP-0348392 (December 26, 1996)

PATENT-FAMILY:

PUB-NO PUB-DATE LANGUAGE

PAGES MAIN-IPC

JP 10186042 A July 14, 1998 N/A

006 G01T 001/185

APPLICATION-DATA:

PUB-NO APPL-DESCRIPTOR APPL-NO

APPL-DATE

JP10186042A N/A 1996JP-0348392

December 26, 1996

INT-CL (IPC): G01T001/185; G01T007/00; H01J047/02

ABSTRACTED-PUB-NO: JP10186042A

BASIC-ABSTRACT: The detector (2) consists of a glass bulb

(10a) containing

discharge gas. A metallic anode (10b) and cathode (10c)

are arranged

adjacently in the bulb.

An optical detection pipe (10) sensitive to UV and X-ray

encloses the anode and

the cathode. A heat shrinking tube (12) is provided to

contact with the outer

surface of the optical detection pipe. UV light projected

on the optical

detection pipe is cut off by the heat shrinking tube.

ADVANTAGE - Enables effective UV cut off even when UV is irradiated along with

X-ray. Enables efficient X-ray detection. Eliminates

06/14/2002, EAST Version: 1.03.0002

incorrect operation due

to UV. Prevents scattering of glass when light incident window fails.

Improves maintenance stability by fixing X-ray detector. Increases shock

resistance.

CHOSEN-DRAWING: Dwg.1/7

TITLE-TERMS:

RAY DETECT IRRADIATE ALARM DEVICE HEAT SHRINK TUBE OUTER SURFACE OPTICAL DETECT

PIPE CUT ULTRAVIOLET PROJECT PIPE

DERWENT-CLASS: S03

EPI-CODES: S03-G02B2C;

SECONDARY-ACC-NO:

Non-CPI Secondary Accession Numbers: N1998-345462

06/14/2002, EAST Version: 1.03.0002

L Number	Hits	Search Text	DB	Time stamp
1	9098	light adj4 pipe	USPAT; US-PGPUB; EPO; JPO; DERWENT;	2002/06/14 09:28
2	719	lpi	IBM_TDB USPAT; US-PGPUB; EPO; JPO;	2002/06/14 09:29
3	1394	shrinking adj3 tube	DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;	2002/06/14 09:30
5	o	lpi and (shrinking adj3 tube)	DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;	2002/06/14
4	3	(light adj4 pipe) and (shrinking adj3 tube)	DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2002/06/14 09:35
6	1066340	pipes	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2002/06/14 09:35
7	120	(shrinking adj3 tube) same pipes	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2002/06/14
8	11	optical and ((shrinking adj3 tube) same pipes)	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2002/06/14
9	19590	assembled adj4 parts	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2002/06/14
10	10431	assembled adj4 sections	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2002/06/14
11	3	(light adj4 pipe) same (assembled adj4 parts)	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2002/06/14 10:05
12	1	(light adj4 pipe) same (assembled adj4 sections)	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT;	2002/06/14 10:05
13	0	lpi same (assembled adj4 sections)	IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB	2002/06/14

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14	0	lpi same (assembled adj4 parts)	USPAT;	2002/06/14
			US-PGPUB;	10:05
			EPO; JPO;	ļ
İ			DERWENT;	1
	Ì		IBM_TDB	
15	4	1 (2	USPAT;	2002/06/14
		parts)) or ((light adj4 pipe) same	US-PGPUB;	10:06
}		(assembled adj4 sections))	EPO; JPO;	
			DERWENT;	
			IBM_TDB	
16	57		USPAT;	2002/06/14
		parts)) or ((light adj4 pipe) and	US-PGPUB;	10:07
		(assembled adj4 sections))	EPO; JPO;	
			DERWENT;	ļ
₋ _			IBM_TDB	0000 (05 (4)
17	4	(lpi and (assembled adj4 parts)) or (lpi	USPAT;	2002/06/14
		and (assembled adj4 sections))	US-PGPUB;	10:07
1			EPO; JPO;	
			DERWENT;	
1.0			IBM_TDB	2002/05/24
18	61	(((light adj4 pipe) and (assembled adj4	USPAT;	2002/06/14
		parts)) or ((light adj4 pipe) and	US-PGPUB;	10:13
		(assembled adj4 sections))) or ((lpi and	EPO; JPO;	1
-		(assembled adj4 parts)) or (lpi and	DERWENT;	
		(assembled adj4 sections)))	IBM_TDB	2222 (25 (2)
19	98	assembled with (light adj4 pipe)	USPAT;	2002/06/14
			US-PGPUB;	10:14
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	2000/05/14
20	2	assembled with lpi	USPAT;	2002/06/14
			US-PGPUB;	10:14
1			EPO; JPO;	
			DERWENT;	
	100		IBM_TDB	2002/06/14
21	100	(assembled with (light adj4 pipe)) or	USPAT;	2002/06/14
		(assembled with lpi)	US-PGPUB;	10:27
			EPO; JPO;	
			DERWENT;	
22	10003		IBM_TDB	2002/06/14
22	19693	concentrator	USPAT;	10:27
			US-PGPUB; EPO; JPO;	10:27
-	İ		DERWENT;	
			IBM TDB	
23	20249	reflective adj4 surface	USPAT;	2002/06/14
23	39240	refrective adja surface	US-PGPUB;	10:28
	1		EPO; JPO;	10.20
	1		DERWENT;	
	1		IBM TDB	
24	140	assembled with (reflective adj4 surface)	USPAT;	2002/06/14
		absoluted with (refrective adja surrace)	US-PGPUB;	10:29
	1		EPO; JPO;	10.25
			DERWENT;	
			IBM TDB	
25	1	(light adj4 pipe) and (assembled with	USPAT;	2002/06/14
23	1	(reflective adj4 surface))	US-PGPUB;	10:29
	1	\Location adj. Salidoe//	EPO; JPO;	10.25
			DERWENT;	
			IBM TDB	
26		lpi and (assembled with (reflective adj4	USPAT;	2002/06/14
1		surface))	US-PGPUB;	10:29
	1		EPO; JPO;	
			DERWENT;	
1			IBM TDB	
27	5	concentrator and (assembled with	USPAT;	2002/06/14
1 -		(reflective adj4 surface))	US-PGPUB;	10:29
		,	EPO; JPO;	
1			DERWENT;	
1			IBM TDB	
				L

		· · · · · · · · · · · · · · · · · · ·	,	
28	6	((light adj4 pipe) and (assembled with	USPAT;	2002/06/14
		(reflective adj4 surface))) or	US-PGPUB;	10:30
		(concentrator and (assembled with	EPO; JPO;	
1		(reflective adj4 surface)))	DERWENT;	1
	}		IBM_TDB	
29	432	(reflective adj4 surface) same assembled	USPAT;	2002/06/14
	}		US-PGPUB;	10:31
			EPO; JPO;	
	İ		DERWENT;	
			IBM TDB	İ
30	10	(light adj4 pipe) and ((reflective adj4	USPAT;	2002/06/14
30	1	surface) same assembled)	US-PGPUB;	10:31
		Surrace, same assembled,	EPO; JPO;	10.31
			DERWENT;	
			IBM TDB	İ
31]		2002/06/14
31	"	lpi and ((reflective adj4 surface) same	USPAT;	2002/06/14
	1	assembled)	US-PGPUB;	10:31
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
32	17	concentrator and ((reflective adj4	USPAT;	2002/06/14
1		surface) same assembled)	US-PGPUB;	10:31
			EPO; JPO;	
			DERWENT;	
			IBM TDB	
33	27	((light adj4 pipe) and ((reflective adj4	USPAT;	2002/06/14
	- /	surface) same assembled)) or	US-PGPUB;	10:36
	1	(concentrator and ((reflective adj4	EPO; JPO;	
	1	surface) same assembled))	DERWENT;	
	1		IBM TDB	
34	956	(light adj4 pipe) and (reflective adj4	USPAT;	2002/06/14
74	936	surface)	US-PGPUB;	10:36
	!	Surrace,	1	10.30
			EPO; JPO;	
1	!		DERWENT;	
125		3-2 (63)	IBM_TDB	2002/06/24
35	10	lpi and (reflective adj4 surface)	USPAT;	2002/06/14
			US-PGPUB;	10:36
			EPO; JPO;	
			DERWENT;	
	1		IBM_TDB	+
36	2504	DMD	USPAT;	2002/06/14
			US-PGPUB;	10:37
			EPO; JPO;	
			DERWENT;	
1			IBM TDB	
37	764	DMD with display	USPAT;	2002/06/14
ļ - ·		* *	US-PGPUB;	10:37
			EPO; JPO;	
			DERWENT;	
i			IBM TDB	
38	16	(light adj4 pipe) and (DMD with display)	USPAT;	2002/06/14
30	10	(tright adja pripe) and (blib with display)	US-PGPUB;	10:48
l				10.30
			EPO; JPO;	
			DERWENT;	
1 20	_	A COURT OF THE COU	IBM_TDB	2002/05/24
39	0	lpi and (DMD with display)	USPAT;	2002/06/14
			US-PGPUB;	10:42
I	i		EPO; JPO;	
			DERWENT;	
			IBM_TDB	
40	24	(light adj4 pipe) and DMD	USPAT;	2002/06/14
	1		US-PGPUB;	10:56
			EPO; JPO;	
			DERWENT;	
1	}		IBM TDB	
41	503	362/26[ccls]	USPAT;	2002/06/14
1.	303	,,,	US-PGPUB;	10:57
1			EPO; JPO;	
i			1	
			DERWENT;	
1	i		IBM TDB	i

		1262/226		1 2002 /06 /14
42	0	362/32[ccls]	USPAT;	2002/06/14
			US-PGPUB;	11:00
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
43	106	362/581[ccls]	USPAT;	2002/06/14
			US-PGPUB;	11:09
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
48	593	362/551(ccls)	USPAT;	2002/06/14
			US-PGPUB;	11:09
			EPO; JPO;	
	ł		DERWENT;	
			IBM TDB	
49	164	362/559[ccls]	USPAT;	2002/06/14
			US-PGPUB;	11:10
			EPO; JPO;	
			DERWENT;	
	!		IBM TDB	
50	93	362/560[ccls]	USPAT;	2002/06/14
			US-PGPUB;	11:10
			EPO; JPO;	
			DERWENT;	
			IBM TDB	[
51	73	362/561[ccls]	USPĀT;	2002/06/14
	•		US-PGPUB;	11:10
			EPO; JPO;	
			DERWENT;	
			IBM TDB	
52	863	362/551[ccls] or 362/559[ccls] or	USPAT;	2002/06/14
02		362/560[ccls] or 362/561[ccls]	US-PGPUB;	11:10
		, , , , , , , , , , , , , , , , , , , ,	EPO; JPO;	
			DERWENT;	
			IBM TDB	
53	0	assembed and (362/551[ccls] or	USPAT;	2002/06/14
		362/559[ccls] or 362/560[ccls] or	US-PGPUB;	11:10
		362/561[ccls])	EPO; JPO;	
			DERWENT;	
			IBM TDB	
54	101	assembled and (362/551[ccls] or	USPAT;	2002/06/14
		362/559[ccls] or 362/560[ccls] or	US-PGPUB;	11:18
		362/561[ccls])	EPO; JPO;	
		302/001[0010]/	DERWENT;	
			IBM TDB	
55	1	("5005944").PN.	USPAT	2002/06/14
<i>J J</i>	1	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	ODENI	11:18
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